

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460



OFFICE OF CHEMICAL SAFETY
AND POLLUTION PREVENTION

July 15, 2014

Mr. Andy Eimanis
FMC Agricultural Products
1735 Market Street
Philadelphia, PA 19103

Subject: Amended label adding pollinator protection language
Product: F9210-1 Insecticide
EPA Reg. No. 279-3440
Submission dated September 12, 2013

Dear Mr. Eimanis:

The labeling referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act is acceptable. A stamped copy of your labeling is enclosed for your records. This labeling supersedes all previously accepted labeling. You must submit one (1) copy of the final printed labeling before you release the product for shipment with the new labeling. See 40 CFR 156.10(a)(6).

- Under 40 CFR 152.130(d), EPA may establish dates by which all product distributed or sold by the registrant must bear revised labeling. You were notified by a September 19, 2013 letter that the Agency intended to require products being revised to incorporate this pollinator protection language and released after January 31, 2014 to bear new labels. That deadline was later changed to February 28, 2014 due to the government shutdown causing delays in approving label amendments. As is it after February 28, 2014, your product must bear the revised labeling at your next release for shipment.

If these conditions are not complied with, EPA will take appropriate action against this registration. If you have any questions please contact Autumn Metzger at 703-305-5314 or metzger.autumn@epa.gov.

Sincerely,

A handwritten signature in black ink that reads "Venus Eagle".

Venus Eagle, Product Manager 01
Insecticide-Rodenticide Branch
Registration Division
Office of Pesticide Programs

ACCEPTED

07/15/2014

Under the Federal Insecticide, Fungicide and Rodenticide Act as amended, for the pesticide registered under EPA Reg. No. 279-3440

RESTRICTED USE PESTICIDE
Toxic to fish and aquatic organisms
For retail sale to and use only by certified applicators or persons under their direct supervision and only for those uses covered by the certified applicator's certificate.

F9210-1 INSECTICIDE

Alternate Brand Name: TripleCrown Insecticide

EPA Reg. No. 279-3440

EPA Est.

Active Ingredients:	By Wt.
Zeta-Cypermethrin*.....	2.70%
Bifenthrin**.....	7.87%
Imidacloprid.....	13.83%
Other Ingredients***:.....	75.60%
	100.0%

F9210-1 contains 2.25 pounds active ingredients per gallon (0.25 lbs Zeta-Cypermethrin, 0.73 lbs Bifenthrin, and 1.27 lbs Imidacloprid)

* *Cis/trans* isomer ratio: Max 75% (±) *cis* and Min. 25% (±) *trans*

** *Cis* isomers 97% minimum; *trans* isomers 3% maximum.

*** Contains Petroleum Distillates[Formulation Type: SE]

KEEP OUT OF REACH OF CHILDREN

WARNING

AVISO

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle.
(If you do not understand the label, find someone to explain it to you in detail.)

FIRST AID	
IF SWALLOWED	<ul style="list-style-type: none"> • Immediately call a poison control center or doctor. • Do not induce vomiting unless told to do so by a poison control center or doctor. • Do not give any liquid to the person • Do not give anything by mouth to an unconscious person.
IF IN EYES	<ul style="list-style-type: none"> • Hold eye open and rinse slowly and gently with water for 15 to 20 minutes. • Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eyes. • Call a poison control center or doctor for treatment advice.
IF ON SKIN	<ul style="list-style-type: none"> • Take off contaminated clothing. • Rinse skin immediately with plenty of water for 15 to 20 minutes. • Call a poison control center or doctor for treatment advice.
NOTE TO PHYSICIAN	
<p>Contains petroleum distillates. Vomiting may pose an aspiration pneumonia hazard. This product contains a pyrethroid. If large amounts have been ingested, the stomach and intestines should be evacuated. Treatment is symptomatic and supportive. Digestible fats, oils, or alcohol may increase absorption and so should be avoided.</p>	
HOTLINE NUMBER	
<p>Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact 1-(800)-331-3148 for Emergency Assistance.</p>	



FMC Corporation
Agricultural Products Group
1735 Market Street
Philadelphia, PA 19103

Net Contents: Gallons

PRECAUTIONARY STATEMENTS

Hazards to Humans and Domestic Animals

Warning

May be fatal if swallowed. Causes moderate eye irritation. Avoid contact with eyes, skin or clothing. Avoid breathing spray mist or vapor.

Personal Protective Equipment (PPE):

Some materials that are chemical-resistant to this product are barrier laminate or Viton. If you want more options, follow the instructions for category G on an EPA chemical resistance category selection chart. All mixers, loaders, applicators and other handlers must wear: long sleeved shirt and long pants, shoes, socks and chemical resistant gloves (selection category G).

Handlers who may be exposed to the dilute through application or other tasks must wear: Long-sleeved shirt and long pants, chemical resistant gloves such as Barrier Laminate; or Butyl, Nitrile, or Neoprene Rubber \geq 14 mls; or Viton \geq 14 mls, and shoes plus socks.

Handlers who may be exposed to the concentrate through mixing, loading, application or other tasks must wear: Long-sleeved shirt and long pants, chemical-resistant gloves such as Barrier Laminate; or Butyl, Nitrile, or Neoprene Rubber \geq 14 mls; or Viton \geq 14 mls, and shoes plus socks and protective eyewear.

User Safety Requirements

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exists, use detergent and hot water. Keep and wash PPE separately from other laundry. Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them.

User Safety Recommendations

User should wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE) and restricted-entry interval.

The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 12 hours.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water, is: Coveralls, Chemical-resistant gloves, such as Barrier Laminate or Nitrile Rubber or Neoprene Rubber or Viton, and Shoes plus socks.

Engineering Control Statements

When handlers use closed systems, enclosed cabs, or aircraft in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides (540CFR 170.240(d)(4-6), the handler PPE requirements may be reduced or modified as specified in the WPS.

Environmental Hazards

This pesticide is extremely toxic to fish, aquatic invertebrates, oysters and shrimp. Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. Do not apply when weather conditions favor drift from treated areas. Drift and runoff from treated areas may be hazardous to aquatic organisms in neighboring areas. Do not contaminate water when disposing of equipment washwaters.

The use of F9210-1 Insecticide is prohibited in areas where its application may result in exposure to endangered species. Prior to use in a particular county contact the local extension service for procedures and precautions to use to protect endangered species.

This product is highly toxic to bees exposed to direct treatment or residues on blooming crops, plants or weeds. Do not apply this product or allow it to drift to blooming crops, plants or weeds if bees are foraging in the treatment area.

The chemical imidacloprid demonstrates the properties and characteristics associated with chemicals detected in groundwater. The use of this chemical in areas where soils are permeable, particularly where the water table is shallow, may result in groundwater contamination.

PROTECTION OF POLLINATORS



Application Restriction exists for this product because of risk to bees and other insect pollinators. Follow application restrictions found in the directions for use to protect pollinators.



Look for the bee hazard icon in the Directions for Use for each application site for specific use restrictions and instructions to protect bees and other insect pollinators.

This product can kill bees and other insect pollinators.

Bees and other insect pollinators will forage on plants when they flower, shed pollen, or produce nectar.

Bees and other insect pollinators can be exposed to this pesticide from:

- Direct contact during foliar applications, or contact with residues on plant surfaces after foliar applications
- Ingestion of residues in nectar and pollen when the pesticide is applied as a seed treatment, soil, tree injection, as well as foliar applications.

When Using This Product Take Steps To:

- Minimize exposure of this product to bees and other insect pollinators when they are foraging on pollinator attractive plants around the application site.
- Minimize drift of this product on to beehives or to off-site pollinator attractive habitat. Drift of this product onto beehives or off-site to pollinator attractive habitat can result in bee kills.

Information on protecting bees and other insect pollinators may be found at the Pesticide Environmental Stewardship website at: <http://pesticidestewardship.org/PollinatorProtection/Pages/default.aspx>.

Pesticide incidents (for example, bee kills) should immediately be reported to the state/tribal lead agency. For contact information for your state, go to: www.aapco.org/officials.html. Pesticide incidents should also be reported to the National Pesticide Information Center at: www.npic.orst.edu or directly to EPA at: beekill@epa.gov

Resistance Management

Some insects are known to develop resistance to products with the same chemical class used repeatedly for control. F9210-1 contains Group 3 and Group 4A insecticides. Although pest resistance cannot be predicted, a general rule to reduce the onset of resistance in pest species to F9210-1 is not to consecutively and repeatedly apply Group 3 and/or Group 4A insecticides during a growing season for control of a particular pest target. Consult your local or state agricultural authorities or your FMC representative for more specific details on insect resistance management strategies. If resistance does occur use another chemistry class that is registered for the pest and crop.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

See individual crops for specific pollinator protection application restrictions. If none exist under the specific crop, for foliar applications, follow these application directions for crops that are contracted to have pollinator services or for food/feed crops & commercially grown ornamentals that are attractive to pollinators:

1. FOR CROPS UNDER CONTRACTED POLLINATION SERVICES



Do not apply this product while bees are foraging. Do not apply this product until flowering is complete and all petals have fallen unless the following condition has been met.

If an application must be made when managed bees are at the treatment site, the beekeeper providing the pollination services must be notified no less than 48-hours prior to the time of the planned application so that the bees can be removed, covered or otherwise protected prior to spraying.

2. FOR FOOD/FEED CROPS AND COMMERCIALY GROWN ORNAMENTALS NOT UNDER CONTRACT FOR POLLINATION SERVICES BUT ARE ATTRACTIVE TO POLLINATORS



Do not apply this product while bees are foraging. Do not apply this product until flowering is complete and all petals have fallen unless one of the following conditions is met:

- The application is made to the target site after sunset
- The application is made to the target site when temperatures are below 55°F
- The application is made in accordance with a government-initiated public health response
- The application is made in accordance with an active state-administered apiary registry program where beekeepers are notified no less than 48-hours prior to the time of the planned application so that the bees can be removed, covered or otherwise protected prior to spraying
- The application is made due to an imminent threat of significant crop loss, and a documented determination consistent with an IPM plan or predetermined economic threshold is met. Every effort should be made to notify beekeepers no less than 48-hours prior to the time of the planned application so that the bees can be removed, covered or otherwise protected prior to spraying.

STORAGE AND DISPOSAL

Do not contaminate water, food, or feed, or other pesticides or fertilizers by storage or disposal.

Pesticide Storage

Do not freeze. Keep out of reach of children and animals. Store in original containers only. Store in a cool, dry place and avoid excess heat. Carefully open containers. After partial use, replace lids and close tightly. Do not put concentrate or dilute material into food or drink containers. In case of spill, avoid contact, isolate area and keep out animals and unprotected persons. Confine spills. **Call CHEMTREC (Transportation and Spills): (800) 424-9300.** To confine spill: Dike surrounding area or absorb with sand, cat litter, or commercial clay. Place damaged package in a holding container. Identify contents.

Pesticide Disposal

Pesticide wastes may be hazardous. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative of the nearest EPA Regional Office for guidance.

Container Handling

Nonrefillable Container. Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows:

For containers equal to 5 gallons or less: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container 1/4 full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times.

For containers greater than 5 gallons: Empty the remaining contents into application equipment or a mix tank. Fill the container 1/4 full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. Then offer for recycling if available or reconditioning if appropriate, or puncture and dispose of in a sanitary landfill, or incineration.

Refillable/Returnable Container.

Refill this container with pesticide only. Do not reuse this container for any other purpose. Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller. To clean the container before final disposal, empty the remaining contents from this container into application equipment or mix tank. Fill the container about 10% full with water. Agitate vigorously or recirculate water with the pump for 2 minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times. Then offer for recycling if available or reconditioning if appropriate, or puncture and dispose of in a sanitary landfill, or incineration.

APPLICATION INSTRUCTIONS

F9210-1 is a suspoemulsion formulation containing three active ingredients from insecticide classes 3 and 4A. F9210-1 can be applied by air, ground and through chemigation equipment as a directed or broadcast foliar spray or unless otherwise noted in specific crop sections in this label. F9210-1 may be applied before or after planting for control of cutworm, armyworm or stalkborer. Spray gallonage minimum amounts for each crop are listed in each specific crop section for aerial and ground applications. Chemigation instructions are found in the chemigation section of this label. In general, use lower listed rates under light and moderate infestations. Higher listed rates should be used under heavy crop canopy or insect pressure. The rate of application is variable according to insect pressure, timing of spray, plant foliage and field scouting. Thorough coverage of foliage is necessary without runoff for optimum insecticidal efficacy.

RESTRICTIONS FOR ALL USES:

Do not use in enclosed structures, including greenhouses or planthouses

In New York State this product may not be applied within 100 feet (using ground equipment) or 300 feet (using aerial equipment) of coastal marshes or streams that drain into coastal marshes.

The maximum amount of Imidacloprid that can be applied per acre is 0.5 lb AI per year for this product or any additional products containing Imidacloprid.

Chemigation Use Directions

Apply this product only through overhead sprinkler system including center pivot, lateral move, end tow, side (wheel) roll, traveler, big gun, solid set, or hand move irrigation systems. Do not apply this product through any other type of irrigation system. Do not connect any irrigation system (including greenhouse systems) used for pesticide application to a public water system. Crop injury, lack of effectiveness, or illegal residues in the crop can result from non-uniform distribution of treated water. If you have questions about calibration, you should contact State Extension Service specialists, equipment manufacturers, or other experts. A person knowledgeable of the chemigation system and responsible for its operation, or under the supervision of the responsible person, shall shut the system down and make necessary adjustments should the need arise. The system must contain a functional check valve, vacuum relief valve, and low-pressure drain appropriately located on the irrigation pipeline to prevent water source contamination from backflow. The pesticide injection pipeline must also contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump. The pesticide injection pipeline must also contain a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down. The system must contain functional interlocking controls to automatically shut

off the pesticide injection pump when the water pump motor stops. The irrigation line or water pump must include a functional pressure switch that will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected. Systems must use a metering pump, such as a positive displacement injection pump (e.g., diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock. Do not apply when wind speed favors drift beyond the area intended for treatment. F9210-1 should be applied continuously for the duration of the water application. F9210-1 should be diluted in sufficient volume to insure accurate application over the area to be treated. Use the appropriate amount of water to carry the product to the target pest. Agitation is not required when a suitable diluent is used.

Chemigation of F9210-1 in water volumes exceeding 0.10 inches/Acre are not recommended.

Tank-Mixture

F9210-1 may be applied in tank mixtures with other products approved for use on crops on this label. Test for compatibility of products before mixing.

Rotational Crops

Crops on this label, or for which imidacloprid, bifenthrin, and zeta-cypermethrin tolerances exist may be rotated immediately. All other crops, except cereals (including buckwheat, millet, oats, rice, rye and triticale), onion and bulb vegetables maybe rotated 12 months after the final application of F9210-1. Cereals, including buckwheat, millet, oats, rice, rye and triticale, maybe rotated 30 days and onion and bulb vegetables maybe be rotated 10 months after the final application of F9210-1.

Buffer Zones

Vegetative Buffer Strip

Construct and maintain a minimum 10-foot-wide vegetative filter strip of grass or other permanent vegetation between the field edge and down gradient aquatic habitat (such as, but not limited to, lakes; reservoirs; rivers; permanent streams; marshes or natural ponds; estuaries; and commercial fish farm ponds).

Only apply products containing F9210-1 onto fields where a maintained vegetative buffer strip of at least 10 feet exists between the field and down gradient aquatic habitat.

For guidance, refer to the following publication for information on constructing and maintaining effective buffers: *Conservation Buffers to Reduce Pesticide Losses. Natural Resources Conservation Services. USDA, NRCS. 2000. Fort Worth, Texas. 21pp. <http://www.in.nrcs.usda.gov/technical/agronomy/newconbuf.pdf>.*

Buffer Zone for Ground Application (groundboom, overhead chemigation, or airblast) – Do not apply within 25 feet of aquatic habitats (such as, but not limited to, lakes, reservoirs, rivers, streams, marshes, natural ponds, estuaries, and commercial fish ponds).

Buffer Zone for ULV Aerial Application - Do not apply within 450 feet of aquatic habitats (such as, but not limited to, lakes, reservoirs, rivers, streams, marshes, natural ponds, estuaries, and commercial fish ponds).

Buffer Zone for Non-ULV Aerial Application – Do not apply within 150 feet of aquatic habitats (such as, but not limited to, lakes, reservoirs, rivers, streams, marshes, natural ponds, estuaries, and commercial fish ponds).

Spray Drift Requirements

Wind Direction and Speed

Only apply this product if the wind direction favors on-target deposition. Do not apply when the wind velocity exceeds 15 mph.

Temperature Inversion

Do not make aerial or ground applications into temperature inversions. Inversions are characterized by stable air and increasing temperatures with height above the ground. Mist or fog may indicate the presence of an inversion in humid areas. The applicator may detect the presence of an inversion by producing smoke and observing a smoke layer near the ground surface.

Droplet Size

Use only Medium or coarser spray nozzles (for ground and non-ULV aerial application) according to ASAE (S572) definition for standard nozzles. In conditions of low humidity and high temperatures, applicators should use a coarser droplet size.

Additional Requirements for Ground Applications

Wind speed must be measured adjacent to the application site on the upwind side, immediately prior to application. For ground boom applications, apply using a nozzle height of no more than 4 feet above the ground or crop canopy. For airblast applications, turn off outward pointing nozzles at row ends and when spraying the outer two rows. To minimize spray loss over the top in orchard applications, spray must be directed into the canopy.

Additional Requirements for Aerial Applications

The spray boom should be mounted on the aircraft as to minimize drift caused by wingtip or rotor vortices. The minimum practical boom length should be used and must not exceed 75% of the wing span or 80% rotor diameter. Flight speed and nozzle orientation must be considered in determining droplet size.

Spray must be released at the lowest height consistent with pest control and flight safety. Do not release spray at a height greater than 10 feet above the crop canopy unless a greater height is required for aircraft safety. When applications are made with a cross-wind, the swath will be displaced downwind. The applicator must compensate for this displacement at the downwind edge of the application area by adjusting the path of the aircraft upwind.

Maximum Foliar Usage (unless otherwise noted) When Applying Bifenthrin and Imidacloprid Products to the Same Crop within the Same Season or Year

Do not apply more than 0.5 lbs AI of imidacloprid per acre, per year, regardless of formulation or method of application, unless specified within a crop specific applications section for a given crop.

Crop	Maximum Seasonal or Yearly Total (lbs ai/acre)			
	Seasonal/Yearly Max. Bifenthrin in TripleCrown	Max. Bifenthrin per season	Seasonal/Yearly Max. Imidacloprid in TripleCrown	Max. Imidacloprid per year
Bushberries	0.18 seasonally	0.500	0.30 seasonally	0.5
Caneberries	0.06 seasonally	0.200	0.10 seasonally	0.300
Citrus	0.2994 yearly	0.500	0.4990 yearly	0.5
Cotton	0.1779 yearly	0.5 US /0.3 CA	0.2998 yearly	0.310
Dried and Succulent Peas and Beans	0.07 seasonally	0.2 / 0.3	0.128 seasonally	0.13
Eggplant, okra, pepper	0.14 seasonally	0.200	0.24 seasonally	0.24
Grape	0.06 yearly	0.100	0.1yearly	0.1
Brassica (Cole) Leafy Vegetables	0.14 seasonally	0.500	0.24 seasonally	0.24
Head Lettuce	0.14 seasonally	0.500	0.24 seasonally	0.24
Peanut	0.07 yearly	0.500	0.128 yearly	0.130
Potato	0.10 yearly	0.2 (foliar) 0.5 (soil + foliar)	0.17 yearly	0.2
Root and Tuber	0.053 (except radish 0.027) seasonally	0.50 (foliar + soil applic.)	0.089 (except radish 0.044) seasonally	0.13 (except radish 0.044)
Soybean	0.08 yearly	0.300	0.14 yearly	0.13
Tomato	0.14 seasonally	0.320	0.24 seasonally	0.240
Tree Nuts	0.21 seasonally	0.500	0.36 seasonally	0.360

Maximum Foliar Usage When Applying Zeta-Cypermethrin and Cypermethrin Products to the Same Crop Within the Same Season.

Do not apply more than the maximum seasonal total for either zeta-cypermethrin or cypermethrin products when used alone; do not apply more than the combined maximum seasonal total for both products as outlined in the table below.

Crop	Maximum Seasonal Total (lbs ai/acre)			Cypermethrin ²	Maximum Seasonal Total (lbs ai/acre) When Applying Cypermethrin and Zetacypermethrin Products to the Same Crop	Maximum Seasonal Total (lbs ai/acre) When Applying Zeta-cypermethrin Products to the Same Crop
	Zeta-cypermethrin ¹				Zeta-cypermethrin ¹ plus Cypermethrin ²	Zeta- cypermethrin ¹
	F9210-1	Mustang Maxx	Mustang Insecticide			
Bushberries	0.06	0.15	0.3	NA	NA	0.3
Caneberries	0.02	0.15	0.3	NA	NA	0.3
Citrus	0.0998	0.10	0.2	NA	NA	0.2
Cotton	0.06	0.15	0.3	0.6	0.6	0.3
Dried and Succulent Peas and Beans	0.026	0.15	0.3	NA	NA	0.3
Eggplant, okra, pepper	0.048	0.15	0.3	NA	NA	0.3
Grape	0.02	0.15	0.3	NA	NA	0.3
Brassica (Cole) Leafy Vegetables	0.048	0.15	0.3	0.6	0.6	0.3
Head Lettuce	0.048	0.15	0.3	0.6	0.6	0.3
Peanut	0.026	0.15	0.3	NA	NA	0.3
Potato	0.026	0.15	0.3	NA	NA	0.3
Root and Tuber	0.009*	0.15	0.3	NA	NA	0.3
Soybean	0.028	0.15	0.3	NA	NA	0.3
Tomato	0.048	0.15	0.3	NA	NA	0.3
Tree nuts	0.07	0.125	0.25	0.6	0.6	0.25

¹ Mustang or Fury (1.5 EW or 1.5 EC); Mustang Max (0.8 EC or 0.8 EW); HERO; or any zeta-cypermethrin product approved for crop use.
² Any cypermethrin product approved for crop use.
 NA = Not Applicable.

FIELD CROPS

Cotton – (Foliar, Aerial, Chemigation)

Pest Controlled	Rate of Application
Cutworms	3.2 - 6.4 fl oz/A (0.056 - 0.112 lb ai/A)
Cotton aphid Cotton fleahopper European corn borer Green stink bug Red shoulder stink bug Saltmarsh caterpillar Southern garden leafhopper Southern green stink bug Tarnish plantbug	4.5 - 6.4 fl oz/A (0.079 - 0.112 lb ai/A)
Armyworm, fall ¹ Armyworm, yellowstriped Boll weevil Bollworm ¹ Brown stink bug Cabbage looper ¹ Cotton leafperforator Grasshoppers Red banded stink bug Tobacco budworm ¹ Western plantbug	6.4 fl oz/A (0.112 lb ai/A)
<p>Restrictions</p> <p>PHI: 14 days</p> <p>Minimum application interval: 7 days. Maximum amount of F9210-1 allowed per year: 30.7 fl oz/A which is equal to: (0.06 lb ai/A) of Zeta-Cypermethrin per season (0.1799 lb ai/A) of Bifenthrin per season (0.2998 lb ai/A) of Imidacloprid per year</p> <p>Refer to the maximum usage tables when applying more than one product containing either zeta-cypermethrin or bifenthrin or imidacloprid to this crop to see the max. per chemical allowed per season/year.</p> <p>Minimum spray volume: 10 gallons/A of finish spray by ground and 5 gallons/A of finish spray by air².</p> <p>Grazing Restrictions: Do not graze in treated areas or cut treated crops for feed.</p>	
<p>Application Instructions¹ Pyrethroid resistance is common for this pest. Contact your extension specialist, certified crop consultant, or manufacturer for the latest resistance management information to determine if resistance pest populations are in your area. If so, refer the Resistance Management Statement in this label.</p> <p>² When applying by air, 1 quart of emulsified oil may be substituted for one quart of water in the finished spray.</p>	

Peanut¹ - (Foliar, Aerial, Chemigation)

Pest Controlled	Rate of Application
Bean leaf beetle Cutworms Green cloverworm Leafhoppers Velvetbean caterpillar	3.2 - 4.5 fl oz/A (0.056 - 0.079 lb ai/A)
Aphids Armyworm, fall ² Armyworm, southern Armyworm, true Armyworm, yellowstriped Corn earworm Cucumber beetle Grasshoppers Lesser cornstalk borer Loopers ² Red-necked peanutworm Southern corn rootworm (adult) Stink bugs Threecornered alfalfa hopper Vegetable weevil Whitefly ² Whitefringed beetle (adult)	4.5 fl oz/A (0.079 lb ai/A)
<p>Restrictions PHI: 14 days Minimum application interval: 14 days. Maximum amount of F9210-1 allowed per year: 13.1 fl oz/A which is equal to: (0.026 lb ai/A) Zeta-Cypermethrin (0.07 lb ai/A) Bifenthrin (0.128 lb ai/A) Imidacloprid</p> <p>Refer to the maximum usage tables when applying more than one product containing either zeta-cypermethrin or bifenthrin or imidacloprid to this crop. Minimum spray volume: 10 gallons/A of finish spray by ground and 5 gallons/A of finish spray by air. Grazing Restrictions: Do not feed green immature or plants and peanut hay or treated vines to livestock and do not graze livestock in treated area.</p>	
<p>Application Instructions¹ Use not permitted in California unless otherwise directed by a state specific 24(C) label. ² Pyrethroid resistance is common for this pest. Contact your extension specialist, certified crop consultant, or manufacturer for the latest resistance management information to determine if resistance pest populations are in your area. If so, refer the Resistance Management Statement in this label.</p>	

Potato - (Foliar, Aerial, Chemigation)

Pest Controlled	Rate of Application
Aphids Armyworm, southern Armyworm, true Armyworm, yellowstriped Banded cucumber beetle ¹ Black flea beetle Chinch bug Colorado potato beetle Cucumber beetle Cutworms European cornborer False chinch bug Flea beetles Grasshoppers	4.8 fl oz/A (0.084 lb ai/A)

Green peach aphid Japanese beetle Leafhoppers Loopers ¹ Potato aphid Potato flea beetle Potato leafhopper Sugarcane beetle Sweetpotato flea beetle Sweetpotato weevil (adult)	
Restrictions PHI: 21 days Minimum application interval: 21 days. Maximum amount of F9210-1 allowed per year: 17.1 fl oz/A which is equal to: (0.026 lb ai/A) Zeta-Cypermethrin (0.10 lb ai/A) Bifenthrin (0.17 lbs ai/A) Imidacloprid Refer to the maximum usage tables when applying more than one product containing either zeta-cypermethrin or bifenthrin or imidacloprid to this crop. Minimum spray volume: 10 gallons/A of finish spray by ground and 5 gallons/A of finish spray by air. Leaves cannot be used for food or feed. Application Instructions¹ Pyrethroid resistance is common for this pest. Contact your extension specialist, certified crop consultant, or manufacturer for the latest resistance management information to determine if resistance pest populations are in your area. If so, refer the Resistance Management Statement in this label.	

Soybean¹ - (Foliar, Aerial, Chemigation)

Pest Controlled	Rate of Application
Bean leaf beetle Cutworms Flea beetle Green cloverworm Leafhoppers Painted lady (thistle) caterpillar Silverspotted skipper Soybean aphid	3.5 - 4.8 fl oz/A (0.061 - 0.084 lb ai/A)
Alfalfa caterpillar Armyworm, southern Armyworm, true Armyworm, yellowstriped Blister beetles Brown marmorated stink bug Corn earworm Cowpea curculio Cucumber beetle Dectes stem borer European corn borer False chinch bug Grape colapsis (adult) Grasshoppers Hornworms Imported cabbageworm Japanese beetle (adult) Leaf skeletonizers Leafminers (adults) Lesser cornstalk borer Loopers ² Mexican bean beetle Pea leaf weevil Rootworm (adult) Saltmarsh caterpillar Seedcorn maggot (adult) Soybean stemborer Spittlebug	4.8 fl oz /A (0.084 lb ai/A)

Stink bugs Three-cornered alfalfa hopper Thrips Velvetbean caterpillar Woollybear caterpillar	
Restrictions PHI: 21 days Minimum application interval: 30 days. Maximum amount of F9210-1 allowed per year: 14.2 fl oz/A which is equal to: (0.028 lb ai/A) Zeta-Cypermethrin (0.08 lb ai/A) Bifenthrin (0.14 lb ai/A) Imidacloprid Refer to the maximum usage tables when applying more than one product containing either zeta-cypermethrin or bifenthrin or imidacloprid to this crop. Minimum spray volume: 10 gallons/A of finish spray by ground and 5 gallons/A of finish spray by air. Grazing Restrictions: Do not graze or harvest treated soybean forage, straw, or hay for livestock feed. Do not feed dry vines for 45 days and green vines for 18 days after harvest.	
Application Instructions ¹ Use not permitted in California unless otherwise directed by a state specific 24(C) label. ² Pyrethroid resistance is common for this pest. Contact your extension specialist, certified crop consultant, or manufacturer for the latest resistance management information to determine if resistance pest populations are in your area. If so, refer the Resistance Management Statement in this label.	

VEGETABLE CROPS

Brassica (Cole) Leafy Vegetables¹ - (Foliar, Aerial, Chemigation)

Broccoli; broccoli, Chinese; Brussels sprouts; cabbage; cabbage, Chinese (napa); cabbage, Chinese mustard; cauliflower; cavalo broccolo; kohlrabi; Broccoli raab; cabbage, Chinese (bok choy); collards; kale; mizuna; mustard greens; mustard spinach; rape greens

Pest Controlled	Rate of Application
Aphids Armyworm, fall ² Armyworm, true Armyworm, yellowstriped Armyworm, southern Cabbage aphid Cabbage looper ² Click beetle (wireworm adult) Corn earworm Crickets Cucumber beetle Cutworms Diamondback moth ² Flea beetle Grasshoppers Imported cabbageworm ² Leafhoppers Leafminers (adult) Loopers ² Saltmarsh caterpillar Southern cabbageworm Stink bugs Tobacco budworm ²	4.9 fl oz/A (0.086 lb ai/A)
Restrictions PHI: 7 days Minimum application interval: 7 days. Do not make more than 5 applications after bloom. Maximum amount of F9210-1 allowed per crop season: 24.5 fl oz/A which is equal to: (0.048 lb ai/A) Zeta-Cypermethrin (0.14 lb ai/A) Bifenthrin	

<p>(0.24 lb ai/A) Imidacloprid</p> <p>Refer to the maximum usage tables when applying more than one product containing either zeta-cypermethrin or bifenthrin or imidacloprid to this crop.</p> <p>Minimum spray volume: 15 gallons/A of finish spray by ground and 5 gallons/A of finish spray by air.</p>
<p>Application Instructions¹ Not for use on crops grown for seed unless allowed by a state specific 24(C) label.</p> <p>² Pyrethroid resistance is common for this pest. Contact your extension specialist, certified crop consultant, or manufacturer for the latest resistance management information to determine if resistance pest populations are in your area. If so, refer the Resistance Management Statement in this label.</p>

Head Lettuce¹ - (Foliar, Aerial, Chemigation)

Pest Controlled	Rate of Application
Armyworm, fall ² Armyworm, true Armyworm, yellowstriped Armyworm, southern Cabbage aphid Cabbage looper ² Click beetle (wireworm adult) Corn earworm Crickets Cucumber beetle Cutworms Diamondback moth ² Flea beetle Foxglove aphid Grasshoppers Green peach aphid Imported cabbageworm ² Leafhoppers Leafminers (adult) Lettuce aphid Loopers ² Potato aphid Red lettuce aphid Saltmarsh caterpillar Southern cabbageworm Stink bugs Tobacco budworm ²	4.8 oz/A (0.084 lb ai/A)
<p>Restrictions</p> <p>PHI: 7 days</p> <p>Minimum application interval: 7 days.</p> <p>Maximum amount of F9210-1 allowed per crop season: 24.5 fl oz/A which is equal to:</p> <p>(0.048 lb ai/A) Zeta-Cypermethrin</p> <p>(0.14 lb ai/A) Bifenthrin</p> <p>(0.24 lb ai/A) Imidacloprid</p> <p>Refer to the maximum usage tables when applying more than one product containing either zeta-cypermethrin or bifenthrin or imidacloprid to this crop.</p> <p>Minimum spray volume: 15 gallons/A of finish spray by ground and 5 gallons/A of finish spray by air.</p>	

Application Instructions¹ Not for use on crops grown for seed unless allowed by a state-specific 24(C).

² Pyrethroid resistance is common for this pest. Contact your extension specialist, certified crop consultant, or manufacturer for the latest resistance management information to determine if resistance pest populations are in your area. If so, refer the **Resistance Management Statement** in this label.

Dried and Succulent Peas and Beans, except Soybeans, dry¹ - (Foliar, Aerial, Chemigation)

Succulent Edible-Podded Pea and Bean or Succulent Shelled Pea and Bean including: Dwarf Pea; Edible-pod Pea; Snow Pea; Sugar Snap Pea; Pigeon pea; Soybean (immature seed); wordbean; English Pea; Garden Pea; Green Pea; Runner Bean; Snap Bean; Wax Bean; Asparagus Bean; Chinese Longbean; Moth Bean; Yardlong Bean; Jackbean; Lima Bean (Green); Broad Bean (Succulent); Blackeyed Pea; Southern Pea; Cowpea.

Dried Shelled Pea and Bean (except Soybean) including: Broad Bean (Fava Bean); Blackeyed Pea; Southern Pea; Grain Lupin; Sweet Lupin; White Lupin; White Sweet Lupin; Field Bean; Kidney Bean; Lima Bean (Dry); Navy Bean; Pinto Bean; Tepary Bean; Adzuki Bean; Catjang; Cowpea; Crowder Pea; Moth Bean; Mung Bean; Rice Bean; Urd Bean; Chickpea (Garbanzo Bean); Guar; Lablab bean; Lentil; Field pea; Pigeon Pea.

Pest Controlled	Rate of Application
Bean leaf beetle Cutworms Flea beetles Green cloverworm Japanese beetle (adults) Leafhoppers Painted lady (thistle) caterpillar Silverspotted skipper	3.5 - 4.5 fl oz/A (0.061 - 0.079 lb ai/A)
Alfalfa caterpillar Armyworm, southern Armyworm, true Armyworm, yellowstriped Blister beetles Corn earworm ² Cowpea curculio Cucumber beetles Dectes stem borer European corn borer False chinch bug Grape colaspsis (adult) Grasshoppers Hornworms Imported cabbageworm Leaf skeletonizers Leafminers (adults) Lesser cornstalk borer Loopers ² Mexican bean beetle Pea leaf weevil Rootworm (adults) Saltmarsh caterpillar Seedcorn maggot (adult) Soybean aphid Soybean stemborer Spittlebug Stink bugs Three-cornered alfalfa hopper Thrips Velvetbean caterpillar Woollybear caterpillar	4.5 fl oz /A (0.079 lb ai/A)

Restrictions

PHI: 7 days for Succulent Peas or Beans and 21 days for Dried Peas or Beans

Minimum application interval: 7 days. **Maximum amount of F9210-1 allowed per crop season:** 13.1 fl oz/A which is equal to:

(0.026 lb ai/A) Zeta-Cypermethrin

(0.07 lb ai/A) Bifenthrin

(0.128 lb ai/A) Imidacloprid

Refer to the maximum usage tables when applying more than one product containing either zeta-cypermethrin or bifenthrin or imidacloprid to this crop.

Minimum spray volume: 10 gallons/A of finish spray by ground and 5 gallons/A of finish spray by air.

Application Instructions¹ Not for use on crops grown for seed unless allowed by state-specific supplemental labeling or for use in California unless otherwise direct by a state specific 24(C) labeling.

² Pyrethroid resistance is common for this pest. Contact your extension specialist, certified crop consultant, or manufacturer for the latest resistance management information to determine if resistance pest populations are in your area. If so, refer the **Resistance Management Statement** in this label.

Peppers, Eggplant, Okra¹ - (Foliar, Aerial, Chemigation)

bell pepper; eggplant; non-bell pepper; okra; pepino;

Pest Controlled	Rate of Application
Aphids Cucumber beetle Cutworms Flea beetle Green peach aphid Leafhoppers Potato aphid	4.5 - 7.9 fl oz/A (0.79 - 0.139 lb ai/A)
Armyworm, fall ² Armyworm, southern Armyworm, true Armyworm, yellowstriped Cabbage looper ² Celery leaf tier Colorado potato beetle Stink bugs Corn earworm ² Omnivorous leafroller European corn borer Garden webworm Grasshoppers Tobacco hornworm Meadow spittlebug Pepper maggot (adult) Pepper weevil (adult) Southwestern corn borer Tobacco budworm ² Tomato fruitworm Tomato hornworm Tomato pinworm Vegetable leafminer (adult)	6.4 - 7.9 fl oz/A (0.112 - 0.139 lb ai/A)

Restrictions

PHI: 7 days

Minimum application interval: 7 days.

Maximum amount of F9210-1 allowed per crop season: 24.5 fl oz/A which is equal to:

(0.048 lb ai/A) Zeta-Cypermethrin

(0.14 lb ai/A) Bifenthrin

(0.24 lb ai/A) Imidacloprid

Refer to the maximum usage tables when applying more than one product containing either zeta-cypermethrin or bifenthrin or imidacloprid to this crop.

Minimum spray volume: 10 gallons/A of finish spray by ground and 5 gallons/A of finish spray by air.

Application Instructions¹ Not for use on crops grown for seed unless allowed by a state specific 24(C) label..

² Pyrethroid resistance is common for this pest. Contact your extension specialist, certified crop consultant, or manufacturer for the latest resistance management information to determine if resistance pest populations are in your area. If so, refer the **Resistance Management Statement** in this label.

Tomato¹ - (Foliar, Aerial, Chemigation)

groundcherry; tomato; tree tomato

Pest Controlled	Rate of Application
Aphids Leafhoppers Stink bugs Beet leafhopper Flea beetle Green peach aphid Potato aphid Cucumber beetle	4.5 - 7.9 fl oz/A (0.079 - 0.139lb ai/A)
Armyworm, fall ² Armyworm, southern Armyworm, true Armyworm, yellowstriped Cabbage looper Celery leaf tier Colorado potato beetle Corn earworm ² Cutworms European corn borer Garden webworm Omnivorous leafroller Grasshoppers Tobacco hornworms Meadow spittlebug Pepper maggot (adult) Pepper weevil Southwestern corn borer Tobacco budworm ² Tomato fruitworm Tomato hornworm Tomato pinworm Vegetable leafminer Whiteflies ²	6.4 - 7.9 fl oz/A (0.112 - 0.139 lb ai/A)
<p>Restrictions</p> <p>PHI: 1 day</p> <p>Minimum application interval: 10 days. No more than 4 applications per crop season.</p> <p>Maximum amount of F9210-1 allowed per crop season: 24.5 fl oz/A which is equal to: (0.048 lb ai/A) Zeta-Cypermethrin (0.14 lb ai/A) Bifenthrin (0.24 lb ai/A) Imidacloprid</p> <p>Refer to the maximum usage tables when applying more than one product containing either zeta-cypermethrin or bifenthrin or imidacloprid to this crop.</p> <p>Minimum spray volume: 10 gallons/A of finish spray by ground and 5 gallons/A of finish spray by air.</p> <p>Grazing Restrictions: Do not graze livestock in treated areas or cut treated crops for feed</p>	

Application Instructions¹ Not for use on crops grown for seed unless allowed by a state specific 24(C) label.

² Pyrethroid resistance is common for this pest. Contact your extension specialist, certified crop consultant, or manufacturer for the latest resistance management information to determine if resistance pest populations are in your area. If so, refer the **Resistance Management Statement** in this label.

Root and Tuber Vegetables¹ - (Foliar, Aerial, Chemigation)

Crops of Crop Group 1 (except sugar beets): Arracacha, Arrowroot, Artichoke (Chinese and Jerusalem), Beet (garden)², Burdock (edible)², Canna (edible, Queensland arrowroot), Carrot², Cassava (bitter & sweet)², Celeriac², Chayote (root), Chervil (turnip-rooted)², Chicory², Chufa, Dasheen (taro)², Ginger, Ginseng, Horseradish, Kava^{2,3}, Leren, Parsley (turnip-rooted), Parsnip², Radish, Oriental radish (diakon)², Rutabaga², Salsify (black)², Salsify (oyster plant), Salsify (Spanish), Skirret, Sweetpotato², Tanier (cocoyam)², Tumeric, Turnip², Yam bean (jicama, manioc pea), Yam (true)².
(For applications on Potato see Field Crops section)

Pest Controlled	Rate of Application
Aphids Banded cucumber beetle Black flea beetle Colorado potato beetle ⁴ Cucumber beetle Cutworms Flea beetles Japanese beetle Leafhoppers Potato leafhopper Sweetpotato flea beetle	3.2 - 4.5 fl oz/A (0.056 - 0.079 lb ai/A)
Armyworm, fall ⁴ Armyworm, southern Armyworm, true Armyworm, yellowstriped Chinch bug European cornborer False chinch bug Grasshoppers Loopers ⁴ Sugarcane beetle Sweetpotato weevil (adult)	4.5 fl oz/A (0.079 lb ai/A)

Restrictions

PHI: 21 days

Minimum application interval: 7 days. No more than one application on radishes; 2 on all other crops per crop season.

Maximum amount of F9210-1 allowed per crop season: 4.5 Fl oz/a for radishes; 9.10 Fl oz/a except radishes, which is equal to;

Radishes – (0.009 lb ai/A) Zeta-Cypermethrin

Radishes – (0.03 lb ai/A) Bifenthrin

Radishes – (0.04 lb ai/A) Imidacloprid

Except Radishes – (0.018 lb ai/A) Zeta-Cypermethrin

Except Radishes – (0.053 lb ai/A) Bifenthrin

Except Radishes – (0.089 lb ai/A) Imidacloprid

Refer to the maximum usage tables when applying more than one product containing either zeta-cypermethrin or bifenthrin or imidacloprid to this crop.

Minimum spray volume: 10 gallons/A of finish spray by ground and 5 gallons/A of finish spray by air.

Application Instructions¹ Not for use on crops grown for seed unless allowed by a state specific 24(C) label.

² Not permitted in California unless otherwise directed by Supplemental Labeling.

³Pyrethroid resistance is common for this pest. Contact your extension specialist, certified crop consultant, or manufacturer for the latest resistance management information to determine if resistance pest populations are in your area. If so, refer the **Resistance Management Statement** in this label.



TREES BUSHES AND VINES

Bushberries - (Foliar, Aerial, Chemigation)

Aronia berry; blueberry, highbush; blueberry, lowbush; buffalo currant; Chilean guava; cranberry, highbush; currant, black; currant, red; elderberry; European barberry; gooseberry; honeysuckle, edible; huckleberry; jostaberry; Juneberry (Saskatoon berry); lingonberry; native currant; salal; sea buckthorn; cultivars, varieties, and/or hybrids of these

Pest Controlled	Rate of Application
Aphids Leafhoppers Sharpshooters Blueberry maggot Japanese beetle (adults) Thrips (foliage feeding thrips only)	4.5 - 10.3 fl oz/A (0.079 - 0.181 lb ai/A)
Fruitworms Lecanium scale (crawlers) Vinegar fly (spotted wing drosophila) Plum curculio Oblique leafroller Red banded leafroller Spanworm Variegated leafroller	6.4 - 10.3 fl oz/A (0.112 - 0.181 lb ai/A)
<p>Restrictions</p> <p>PHI: 3 days</p> <p>Minimum application interval: 7 days. No more than 5 applications per crop season.</p> <p>Maximum amount of F9210-1 allowed per crop season: 31.0 fl oz/A which is equal to (0.06 lb ai/A) of Zeta-Cypermethrin (0.18 lb ai/A) of Bifenthrin (0.30 lb ai/A) of Imidacloprid</p> <p>Refer to the maximum usage tables when applying more than one product containing either zeta-cypermethrin or bifenthrin or imidacloprid to this crop.</p> <p>Minimum spray volume: 20 gallons/A of finish spray by ground and 5 gallons/A of finish spray by air.</p> <p>Do not apply pre-bloom or during bloom or when bees are foraging.</p>	



Caneberries¹ - (Foliar, Aerial, Chemigation)

Rubus spp. (including blackberry); Rubus caesius (youngberry); Rubus loganbaccus (loganberry); Rubus idaeus (red and black raspberry)

Pest Controlled	Rate of Application
Aphids Fruitworms Lecanium scale (crawlers) Vinegar fly (spotted wing drosophila) Thrips Leafrollers	6.4 - 10.3 fl oz/A (0.112 - 0.181 lb ai/A)
Blackvine weevil (adult) Brown apple moth Orange tortrix Root weevil (adult)	10.3 fl oz/A (0.181 lb ai/A)

<p>Restrictions</p> <p>PHI: 3 days</p> <p>Minimum application interval: 7 days. One application may be made post bloom. Do not apply pre-bloom or during bloom or when bees are foraging.</p> <p>Maximum amount of F9210-1 allowed per crop season: 10.3 fl oz/A which is equal to (0.02 lb ai/A) Zeta-Cypermethrin (0.06 lb ai/A) Bifenthrin (0.10 lb ai/A) Imidacloprid</p> <p>Refer to the maximum usage tables when applying more than one product containing either zeta-cypermethrin or bifenthrin or imidacloprid to this crop.</p> <p>Minimum spray volume: 50 gallons/A of finish spray by ground and 10 gallons/A of finish spray by air.</p>
<p>Application Instructions¹ Use not permitted in California unless otherwise directed by a 24(C) .</p>

Grapes - (Foliar, Aerial, Chemigation)

Pest Controlled	Rate of Application
Cutworms Eastern grape leafhopper Grape mealybug (crawlers) Grapeleaf skeletonizer Leafhoppers Sharpshooters Variegated leafhopper Vinegar fly (spotted wing drosophila) Western grape leafhopper	5.0 fl oz/A (0.088 lb ai/A)
<p>Restrictions</p> <p>PHI: 30 days</p> <p>Minimum application interval: 14 days.</p> <p>Maximum amount of F9210-1 allowed per crop year: 10.2 fl oz/A which is equal to (0.02 lb ai/A) Zeta-Cypermethrin (0.06 lb ai/A) Bifenthrin (0.10 lb ai/A) Imidacloprid</p> <p>Refer to the maximum usage tables when applying more than one product containing either zeta-cypermethrin or bifenthrin or imidacloprid to this crop.</p> <p>Minimum spray volume: 25 gallons/A of finish spray by ground.</p> <p>F9210-1 may only be applied by ground equipment.</p>	



Citrus – (Soil Application)

Calamondin, Citron citron, Citrus hybrids (includes chironja, tangelo and tangor), Grapefruit, Kumquat, Lemon, Lime, Mandarin (tangerine), Pummelo, Orange (sweet and sour), Satsuma mandarin,

Pest Controlled	Rate of Application
Aphids Asian citrus psyllid Asian cockroach Blackfly Blue green citrus root weevil (Pachnaeus opalus) Brown leaf notcher (Epicacrus mexicanus) Diaprepes root weevil (Diaprepes abbreviatus) Fire ants Leafhoppers/Sharpshooters	12.5 fl oz/A (0.22 lb ai/A)

<p>Leafminers Little leaf notcher (<i>Artipus floridanus</i>) Mealybugs Scales¹ Southern blue green citrus root weevil (<i>Pachnaeus litus</i>) Whiteflies</p>	
<p>Restrictions</p> <p>PHI: 1 day</p> <p>Minimum application interval: 14 days.</p> <p>Maximum amount of F9210-1 allowed per crop year: 51.1 fl oz/A which is equal to (0.0998 lb ai/A) Zeta-Cypermethrin (0.2994 lb ai/A) Bifenthrin (0.499 lb ai/A) Imidacloprid</p> <p>Refer to the maximum usage tables when applying more than one product containing either zeta-cypermethrin or bifenthrin or imidacloprid to this crop.</p> <p>Minimum spray volume: 40 gallons/A of finish spray by ground. Do not allow any application of the product to contact fruit or foliage. Do not apply during bloom or within 10 days prior to bloom or when bees are foraging. Apply by ground application only, do not apply by air or through irrigation systems.</p>	
<p>Application Instructions¹Scales – time application to the crawler stage. Treat each generation. Where concentrated applications are appropriate, increase the spray solution concentration to apply an equivalent rate per acre to that applied in the diluted application. The 12.5 fluid ounce/acre rate is based on full sized trees. This rate may be reduced proportionally for smaller trees.</p> <p>The use of this product protects citrus tree roots from Diaprepes and other citrus root weevil feeding by creating a barrier. As Citrus root weevil eggs hatch, the newly hatched larvae (neonates) fall to the soil surface beneath the tree and come into contact with this product as they attempt to burrow into the root zone. Disturbance of the soil beneath the tree should be minimized. Timing of application is very important. Peak emergence of Diaprepes adults varies by citrus growing region, and environmental factors such as soil moisture can affect citrus root emergence.</p> <p>Usually, two peaks occur for Diaprepes, first in the spring then late summer or early fall. Southern blue green and Blue green citrus weevils and Fuller rose beetle usually have a single emergence peak in the spring. Brown and Little leaf notchers usually have three emergence peaks, spring, summer and fall. Since emergence varies by region and season, the best way to time application is to observe the adults. By trapping adults when they are most active (in the morning or and late afternoon) during the spring and summer emergence periods, an estimation of numbers can be obtained. Eggs are laid 8 to 10 weeks following the adult emergence from the soil; larvae invasion into the soil will begin 2 to 3 weeks following adult emergence. This product must be applied prior to the dropping of the neonates. Consult local university extension personnel for current information to protect citrus trees from Citrus root weevils and other pests. If the citrus grove to be treated is in an area where weather conditions are conducive to primary emergence occurring in the spring, 12.5 fl. oz. formulated product should be used to obtain the longest residual management of Diaprepes root weevil. If the citrus grove to be treated is in an area where weather conditions will promote more than one peak of pest emergence, 12.5 fl. oz. formulated product can be applied early season and 12.5 fl. oz. formulated product can be applied later in the season.</p> <p>If emergence extends beyond the residual protection of this product, grower is advised to use additional management strategies (i.e. foliar adult control or soil larvae control such as nematodes). Contact your state agricultural Extension Specialist as to the recommendation suited for local conditions."</p> <p>Apply this product by ground equipment to bare soil beneath citrus trees. This product must be uniformly applied from the trunk to the drip line of the tree, apply in a minimum of 40 gallons of dilute spray per acre. Greater spray volume should insure greater uniformity of coverage. A pre and post-application irrigation may aid in the uniformity of coverage as well.</p> <p>Apply to individual citrus resets, when not in solid planted rows, using hand-gun or shielded sprayer. Peak emergence of Diaprepes root weevil generally occurs in the spring. Depending on weather conditions, a minor emergence of Diaprepes root weevil may also occur in the fall.</p>	



Tree nuts, except almonds - (Foliar, Aerial, Chemigation)

Beech nut; Brazil nut; butternut; cashew; chestnut; chinquapin; filbert (hazelnut); hickory nut; macadamia nut; pecan; walnut, black and English

Pest Controlled	Rate of Application
Leafhoppers Sharpshooters	4.5 - 10.3 fl oz/A (0.079 - 0.181 lbs ai/A)
Black pecan aphid Codling moth Filbert worm Fire ants Hickory shuckworm Leaffooted bug Navel orange worm Oblique-banded leafroller Peach twig borer Pecan leaf casebearer Pecan nut casebearer Pecan phylloxera Pecan weevil Plant bugs San José scale (crawlers) Stinkbugs Walnut aphid Walnut husk fly Yellow pecan aphid	10. 3 fl oz/A (0.181 lbs ai/A)
<p>Restrictions</p> <p>PHI: 7 days, except pecans which is 21 days.</p> <p>Do not apply on almonds</p> <p>Minimum application interval: 15 days.</p> <p>Maximum amount of F9210-1 allowed per crop season: 36.4 fl oz/A which is equal to (0.07 lb ai/A) Zeta-Cypermethrin (0.21 lb ai/A) Bifenthrin (0.36 lb ai/A) Imidacloprid</p> <p>Refer to the maximum usage tables when applying more than one product containing either zeta-cypermethrin or bifenthrin or imidacloprid to this crop.</p> <p>Minimum spray volume: 200 gallons/A of finish spray by ground and 50 gallons/A of finish spray by air as a dilute. 50 gallons/A of finish spray by ground and 25 gallons/A by air as a concentrate.</p> <p>Grazing Restrictions: Do not graze livestock in treated orchards or cut treated cover crops for feed.</p> <p>Do not apply pre-bloom or during bloom or when bees are foraging.</p>	

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